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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,775	06/27/2003	Doug Gettman	030605.002	6449
34142	7590 12/21/2005		EXAMINER	
GALLAGHER & DAWSEY CO., L.P.A.			DRODGE, JOSEPH W	
P.O. BOX 785 COLUMBUS, OH 43216			ART UNIT	PAPER NUMBER
	,		1723	

DATE MAILED: 12/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	A 12 A A A A A A A A A A A A A A	A			
	Application No.	Applicant(s)			
Office Action Comments	10/607,775	GETTMAN, DOUG			
Office Action Summary	Examiner	Art Unit			
	Joseph W. Drodge	1723			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was railure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 03 No	ovember 2005.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-22,25 and 26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-22,25 and 26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the oath or declaration is objected to by the Examiner	epted or b) objected to by the E frawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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The indicated allowability of claims 1-16,18-22 and 26, pending resolution of the double patenting rejection is withdrawn in view of the newly discovered reference(s) to Kuepper patent 6,103,125, regarding incorporation of showering/shower heads into a water filtration and purification system. Rejections based on the newly cited reference(s) follow.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-22,25 and 26 remain provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-28 of copending Application No. 10/713,944 in view of Gordon et al PGPUBS Document US2004/0065614. The instant claims substantially duplicate those of '944 except for not including the limitation of "multi-service mobile telecommunication system with satellite and terrestrial transmission". However, Gordon et al teach a mobile water treatment system having such system in paragraph 110 concerning transmission of data

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through a public network transmission channel. Thus, it would have been obvious to one of ordinary skill in the art to have supplemented the system defined in the claims of '944 with the mobile telecommunication system of Gordon et al, to enable communication with distant supervisory operating personnel, when the water treatment system is deployed to remote geographic areas.

Although a terminal disclaimer has been filed in the copending 944 application, a terminal disclaimer must be filed in the instant application to remove the double patenting rejection.

This is a <u>provisional</u> obviousness-type double patenting rejection.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1,2,5,7-10,12-14 and 18-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horner et al patent 5,244,579 in view of Marius et al patent 5,059,317 and Donath Derwent patent DE 3,243,147, and in view of Kuepper patent 6,103,125.

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Horner et al disclose a complex water treatment installation that includes systems of: raw water supply from raw or sea water source (column 1,lines 6-19), filtration (column 5, lines 50-55), reverse osmosis (the 2nd pass RO unit of column 6, lines 27-37), desalination (the 1st pass RO unit of column 10, lines 20-22 and column 11, lines 57-59 for "seawater" and "to demineralize"), storage (column 5, lines 30-32), ion-exchange (column 2, lines 60-61), heating (column 12, lines 31-37 and column 13, line 63), dispensing/distribution (column 1, lines 63-65 and column 2, lines 42-43), piping with valves (column 11, lines 7-17), provision of electric power (column 12, lines 24-25) and discloses a vehicle for transporting the entire installation (column 1, lines 6-12 and other text).

The claims all differ in requiring that the ion exchange system be of the "sodium" type. However, Donath teaches such type ion exchange system in an installation for purifying raw water such as sea water (part b, (2)) of Basic-Abstract as does Marius et al at column 3, lines 26-31. Thus it would have been obvious to one of ordinary skill in the art to have utilized a sodium type ion exchange unit in the ion exchange system of Horner, as taught by Donath and Marius, to effectively soften the raw water and remove a maximum of suspended solids and mineral matter.

The claims also differ in requiring the system to comprise a shower head. However, Kuepper teaches that complex water desalination and purifying systems can use treated water that is suitable for drinking, for other purposes as well, such as showering facilities, while maintaining water conservation priorities by recirculating most utilized water (column 3, lines 43-44 and column 7, lines 29-34). It would have been

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further obvious to have incorporated a shower facility/shower head into the Horner system, as taught by Kuepper, to more completely meet additional needs of users for treated, potable water of the portable system, without requiring a separate facility for supplying water for showering.

Horner also discloses the following: a booster pump at column 9, line 16 for claim 2, chlorine disinfection at column 2, lines 56-58 for claims 9-10, a truck bed for fluid "containment" for claim 14, plural storage tanks for both non-potable and potable water in the form of a bladder tank at column 10, lines 40-42 for claim 19, pre-filters upstream of the reverse osmosis units at column 5, lines 49-59 for claim 20, suggestion of positive displacement for the booster pump at column 9, lines 12-18 for claim 22, the heater being operable for elevating temperatures by at least 100 degrees farenheit at column 10, line 66-column 11, line 6 where operation at temperatures of well below zero or under "frigid" conditions are discussed.

Marius teaches the further features of ozone disinfection at column 3, lines 20-22 for claim 12, rainwater collection in raw water collection source 2, the ion exchange system comprising softener and source of salt or "brine tank" at column 3, lines 26-31 for claim 18, a tank for drinking water storage at column 4, lines 15-16 for claim 19, operability of the reverse osmosis units of removing greater than 90% of a variety of substances at column 3, lines 32-36 for claim 21.

The Donath Derwent publication further teaches combining reverse osmosis with distillation systems that comprise evaporation and condensing in the Equivalent Abstracts section for claims 5.7 and 8.

Claims 3,6 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horner et al in view of Marius et al, Kuepper and Donath as applied to claim 1 above, and further in view of Faqih patent 6,684,648.

Claims 3 and 6 also require a solar energy source. Faqih teaches such source utilized for transportable water treatment a tcolumn 7, lines 33-38. It would have been further obvious to one of ordinary skill in the art to have utilized the solar energy source of Faqih in the Horner et al installation, in order to extract some water from humid air and to readily provide energy in hot, sunny locations without dependence on electricity.

Claim 11 also requires UV treatement, as taught in column 19, lines 43-47 of Faqih. It would have been further obvious to have provided the UV treatment of Faqih in the Horner et al installation, since UV is more effective for sterilizing relatively small quantitites of water that are not held in storage for long periods of time.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horner et al in view of Marius et al, Kuepper and Donath as applied to claim 1 above, and further in view of Capehart patent 5,547,584. Claim 15 further differs in requiring a sand filter, such as taught by Capehart at column 9, lines 28-30. It would have been further obvious to have provided a sand filter such as taught by Capehart since such type filters strain large amounts of larger debris from incoming raw water while allowing a high flow rate therethrough.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horner et al in view of Marius et al, Kuepper and Donath as applied to claim 1 above, and further in view of Wang patent 5,190,659.

Claim 16 also requires a diatomaceous earth containing filter, such as taught by Wang in multi-component water purification system in the Summary of the Invention. It would have been further obvious to the skilled artisan to have provided diatomaceous earth with one or more of the filters of the Horner et al composite installation to reduce clogging of the filter(s) and provide greater filtration flux rates.

ALLOWABLE SUBJECT MATTER

Claim 17 remains deemed to constitute allowable subject matter, pending resolution of double patenting issues.

Claim 17 distinguishes in reciting the installation as further comprising a coalescing plate and an oil skimmer. The prior art transportable water treatment installations do not envision raw water sources containing large amounts of oil or oil/water emulsions.

Claim 25 would be allowable if rewritten or amended, pending resolution of the double patenting issues.

Independent claim 25 would distinguish in view of recitation of the same combination of features in a complex water treatment installation as provided in claim 1 with the further recitation of features encompassing the raw water filtration system comprising coalescing plate, oil skimmer, reticulated media filter and filter bag. Again, the prior art does not suggest raw water sources which are so intermingled or contaminated with oil that oil/water skimming and coalescing are necessary.

Applicant's arguments filed on November 3, 2005 have been fully considered but they are not persuasive. It is argued that the terminal disclaimer filed in the copending

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'944 application obviates the double patenting rejection. However, it is submitted that a terminal disclaimer is also needed in the instant application to overcome this rejection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Drodge at telephone number 571-272-1140. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can reached at 571-272-1151. The fax phone number for the examining group where this application is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or Public PAIR, and through Private PAIR only for unpublished applications. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JWD

December 13, 2005

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